

Technical data sheet Multiple light beam safety device receiver

Part no.: 66536701 MLD510-XR4L/A



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Technical data

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MLD 500
Receiver
Reflective element for laser alignmen aid
Automatic restart
4, IEC/EN 61496
3, IEC 61508
3, IEC/EN 62061
e, EN ISO 13849-1
204 years, EN ISO 13849-1
6.6E-09 per hour
20 years, EN ISO 13849-1
4, EN ISO 13849
4 Piece(s)
300 mm
26.5 31.6 V
140 mA
30 ms
100 ms
AS-Interface Safety at Work
Process
S-7.B.1
S-7.B.1 131 programmable, default=0

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or 1,000 mm x 64.7 mm
1,000 mm x 64.7 mm
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S RTL US
S RTL US J
S RTL US 3 8,546 B
S RTL US 3 8,546 B
S RTL US J 8,546 B 1,595 B
S RTL US 1 8,546 B 1,595 B 9
S RTL US 3 8,546 B 1,595 B 9 3
N üc 18 4

Number of connections

1 Piece(s)

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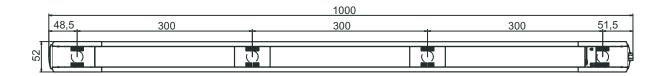
 The Sensor People
 In der Braike 1, 73277 Owen
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Dimensioned drawings



All dimensions in millimeters





Electrical connection

Connection 1

Function	Machine interface
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment	Conductor color	2
1	AS-i+	Brown	
2	n.c.	White	
3	AS-i-	Blue	3
4	n.c.	Black	5
5	n.c.	Gray	4

Operation and display

LED	Display	Meaning
1	Red, continuous light	OSSD off.
	Green, continuous light	OSSD on
	Red, flashing, 1 Hz	External error
	Red, flashing, 10 Hz	Internal error
	Green, flashing, 1 Hz	Weak signal, device not optimally aligned or soiled.
2	Yellow, continuous light	Start/restart interlock locked.
	Off	No voltage on AS-i cable.
	Red, continuous light	AS-i slave not communicating with AS-i master
	Yellow, flashing	AS-i slave has invalid address 0
	Red/green, flashing alternately	AS-i slave device error or AS-i connection defective
	Green, continuous light, flashing red at the same time	Periphery error
	Green, continuous light	AS-i slave communicating with AS-i master

Suitable transmitters

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 Part no.	Designation	Article	Description
66502701	MLD500-XT4L/A	Multiple light beam safety device transmitter	Operating range: 20 70 m Number of beams: 4 Piece(s) Beam spacing: 300 mm Type of interface: AS-Interface Safety at Work Connection: Connector, M12, Metal, 5 -pin Special design: Integrated laser alignment aid

Part number code

MLD	Multiple light beam safety device
x	Series 3: MLD 300 5: MLD 500
уу	Function classes 00: transmitter 10: automatic restart 12: external testing 20: EDM/RES 30: muting 35: timing controlled 4-sensor muting
z	Device type T: transmitter R: receiver RT: transceiver xT: transmitter with high range xR: receiver for high range
а	Number of beams
b	Option L: integrated laser alignment aid (for transmitter/receiver) M: integrated status indicator (MLD 320, MLD 520) or integrated status and muting indicator (MLD 330, MLD 335, MLD 510/A, MLD 530, MLD 535) E: connection socket for external muting indicator (AS-i models only)
/t	Safety-related switching outputs (OSSDs), connection technology -: transistor output, M12 plug A: integrated AS-i interface, M12 plug, (safety bus system)
Ν	lote
6	A list with all available device types can be found on the Leuze website at www.leuze.com.

Accessories

Connection technology - Connection cables

 Part no.	Designation	Article	Description
50133859	KD S-M12-5A-P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR

Accessories

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 Part no.	Designation	Article	Description
50136146	KD S-M12-5A-P1-250	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PVC

Mounting technology - Swivel mounts

 Part no.	Designation	Article	Description
560340	BT-SET-240BC	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal
540350	BT-SET-240BC-E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal, Plastic

Services

Part no.	Designation	Article	Description
S981050	CS40-I-140	Safety inspection "Safety light barriers"	Details: Checking of a safety light barrier application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
S981046	CS40-S-140	Start-up support	Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.

	Note
6	♣ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.